

B2
Cord. Sub C1 2. (Amended) [Transgenically] Mammary gland produced antithrombin III [comprising] having a monosaccharide composition which [includes] comprises GalNAc and which lacks O-linked glycosylation.

3. (Cancel) Transgenically produced antithrombin III comprising a monosaccharide composition of Fuc, GalNAc, GlcNAc, Gal, Man, and NANA/NGNA.

4. (Cancel) Transgenically produced antithrombin III having one of its glycosylation sites comprising oligomannose and/or hybrid oligosaccharide structures.

5. (Cancel) Transgenically produced antithrombin III comprising a monosaccharide composition which is primarily an oligomannose or hybrid type structure on one site and complex oligosaccharide on the remaining 3 sites.

Sub C2 B2 6. (Amended) [Transgenically] Mammary gland produced antithrombin III comprising a monosaccharide composition which is partially sialylated.

7. (Amended) [Transgenically] Mammary gland produced antithrombin III [comprising] having a monosaccharide composition [including] comprising sialic acid which includes NGNA. RECORDED JUN 30 1999

8. (Cancel) Transgenically produced antithrombin III comprising a monosaccharide composition which includes a fucose on its proximal GlcNAc on each of the sites having complex oligosaccharides. B

88C3
9. (Amended) The [transgenically] mammary gland produced antithrombin III of claims 1, 2, [3, 4, 5,] 6, [7] or [8] ⁷ wherein the antithrombin III is [transgenically] produced in the mammary glands of a transgenic mammal.

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⁶⁴10. (Amended) The [transgenically] mammary gland produced antithrombin III of claim 1, 2, [3, 4, 5,] ³6, [7] or [8] ⁴7 wherein the antithrombin III is [transgenically] produced in the mammary glands of a transgenic goat.

⁷11. (Amended) A [transgenic] method for producing antithrombin III in mammalian milk, comprising:

a. [producing] providing a transgenic mammal that expresses in its mammary tissue a transgene which encodes a human antithrombin III with a monosaccharide composition which [includes] comprises GalNAc, wherein said human antithrombin III is secreted into the milk of the mammal; and

b. collecting milk from the transgenic animal which contains the human antithrombin III; and

c. isolating the human antithrombin III from milk] to thereby obtain human antithrombin III with a monosaccharide composition which includes GalNAc.

Please add the following new claims:

⁸12. (New) The method of claim ⁷11, further comprising isolating human ATIII from the milk.

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⁹13. (New) The method of claim ⁷11, wherein the transgenic mammal is a goat.

cont
¹⁰14. (New) The method of claim ⁷11, wherein the transgenic mammal is a mouse.

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